

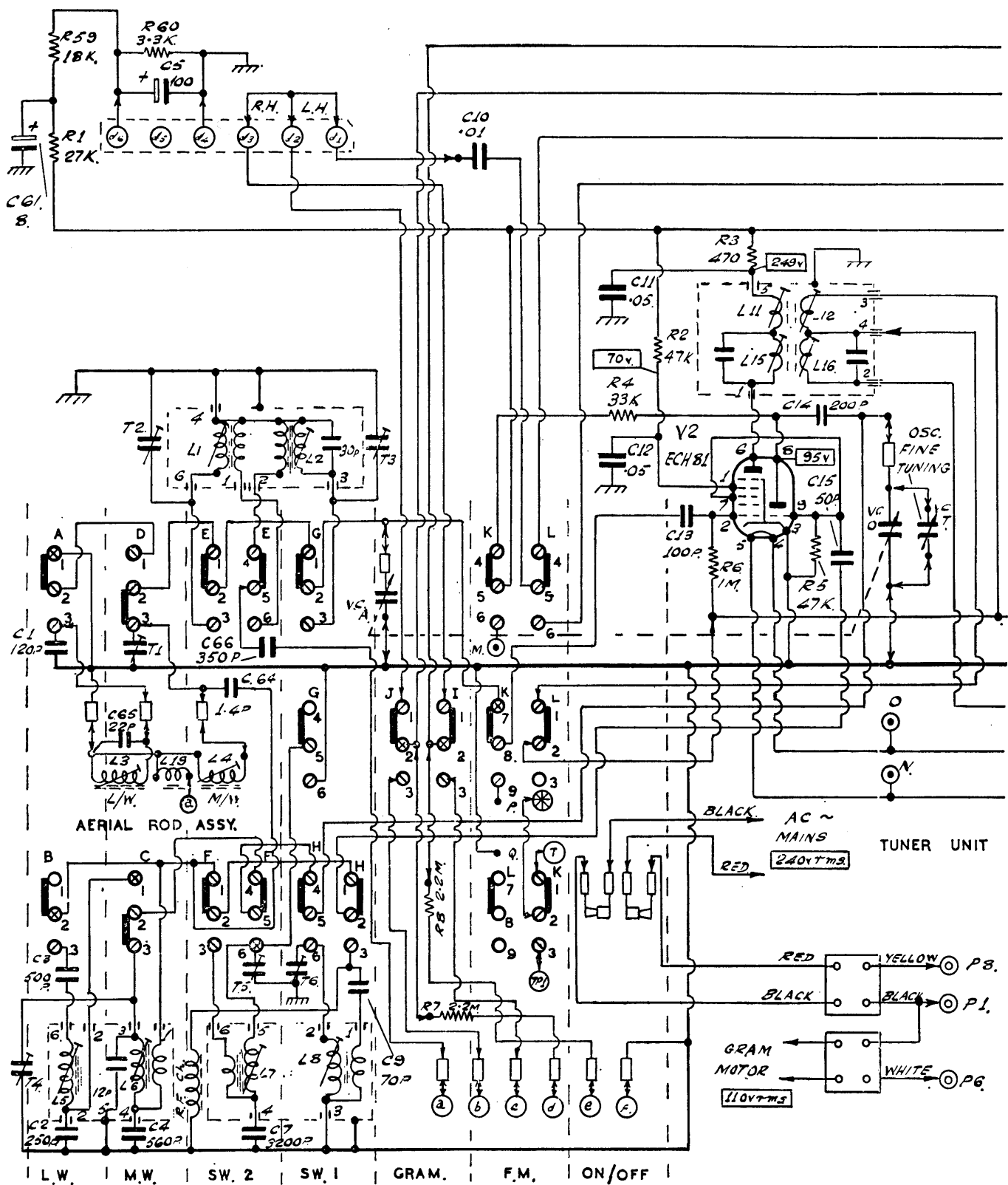
**General Description:** Supergrams models 9904 (Viscount) and 9905 (Viking) employ the same chassis, but use different types of cabinet and speakers. They are designed for normal or stereophonic record reproduction; the reception of F.M. (mono. or stereo.) in band II and A.M. in the Long, Medium and Short wavebands.

**Alignment:** A.M.I.F. 470 kc/s. (L<sub>18</sub>, L<sub>17</sub>, L<sub>16</sub>, L<sub>15</sub>). L.W. 154 kc/s. (L<sub>5</sub> outer); 213 kc/s. (L<sub>3</sub>). M.W. 520 kc/s. (L<sub>6</sub> outer); 600 kc/s. (L<sub>4</sub>); 1500 kc/s. (T<sub>1</sub>); 1625 kc/s. (T<sub>4</sub>). S.W.1 8.5 Mc/s. (L<sub>8</sub> inner); 9 Mc/s. (L<sub>2</sub> inner); 27 Mc/s. (T<sub>6</sub>); 25 Mc/s. (T<sub>3</sub>). S.W.2 3 Mc/s. (L<sub>7</sub> outer); 3.25 Mc/s. (L<sub>1</sub> outer); 10 Mc/s. (T<sub>5</sub>); 9 Mc/s. (T<sub>2</sub>). F.M.I.F. 10.7 Mc/s. Unscrew L<sub>14</sub> core until flush with panel. Apply 10.7 Mc/s. (C.W.) via 100 pF. in series with 2.2k to point f10 on F.M. unit. Adjust L<sub>13</sub>, L<sub>12</sub>, L<sub>11</sub>, L<sub>10</sub> and L<sub>9</sub> for max. reading on voltmeter between TP<sub>1</sub> and earth. Screw in L<sub>14</sub> core for zero reading on voltmeter between AFC and earth. Apply A.M. to C.W. 10.7 Mc/s. signal and adjust VR<sub>1</sub> for min. audible output. R.F. 93.5 Mc/s. Short AFC point and rotate collar on gang spindle.

**Stereo F.M.:** A decoder unit is available for fitting to the back of the chassis. After removing the outer sleeving, R<sub>60</sub> and the shorting link

# ALBA

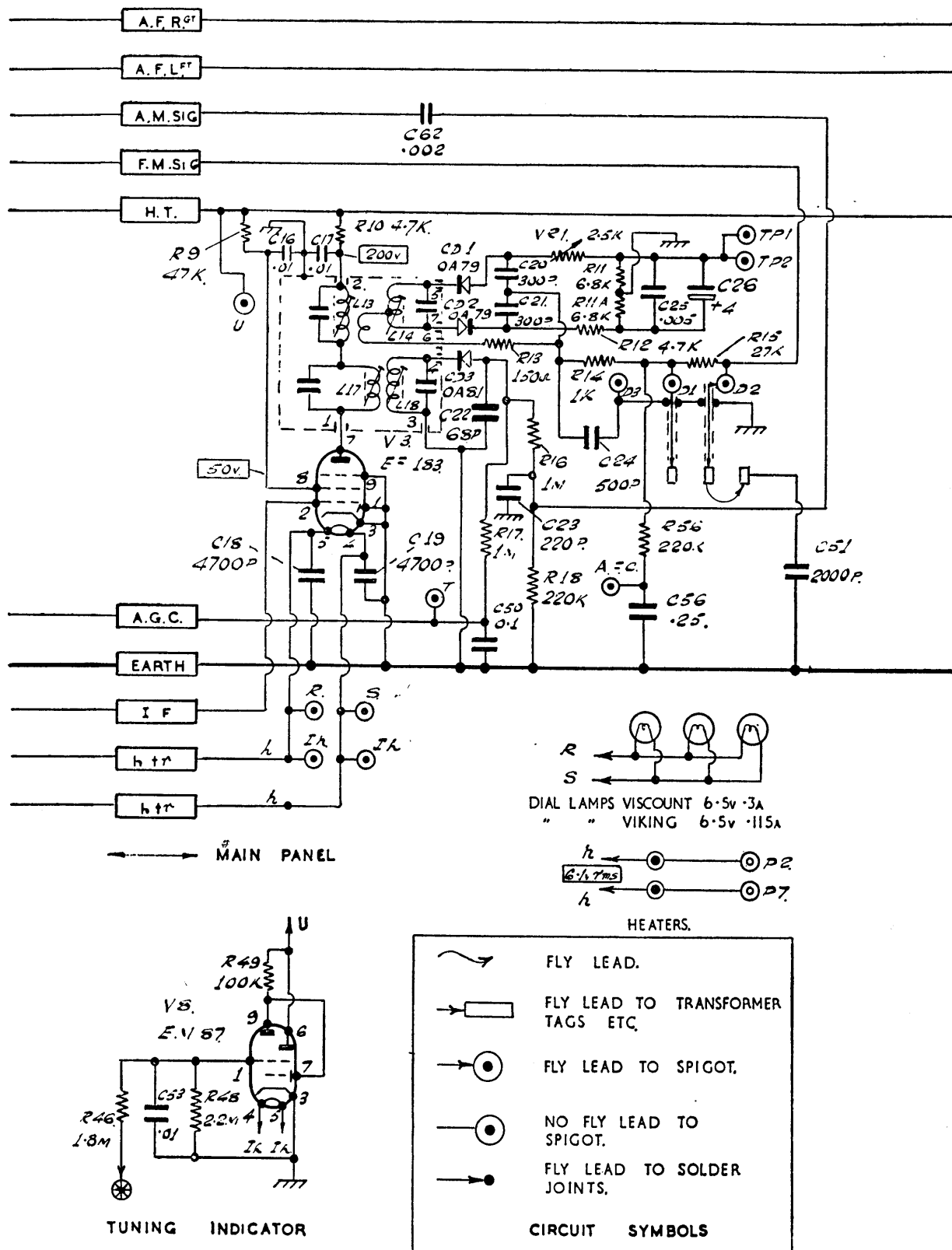
## DECODER PLUG



FOR READING SWITCH			CONNECTIONS :-
CONTACTS	SHOWN	THUS	O HAVE NO CONNECTIONS.
"	"	"	" " CONNECTIONS ON COPPER SIDE ONLY
"	"	"	" " " VALVE " "
"	"	"	" " " COPPER & VALVE SIDES
BUTTONS SHOWN IN 'M/WAVE' & 'ON' POSITION.			

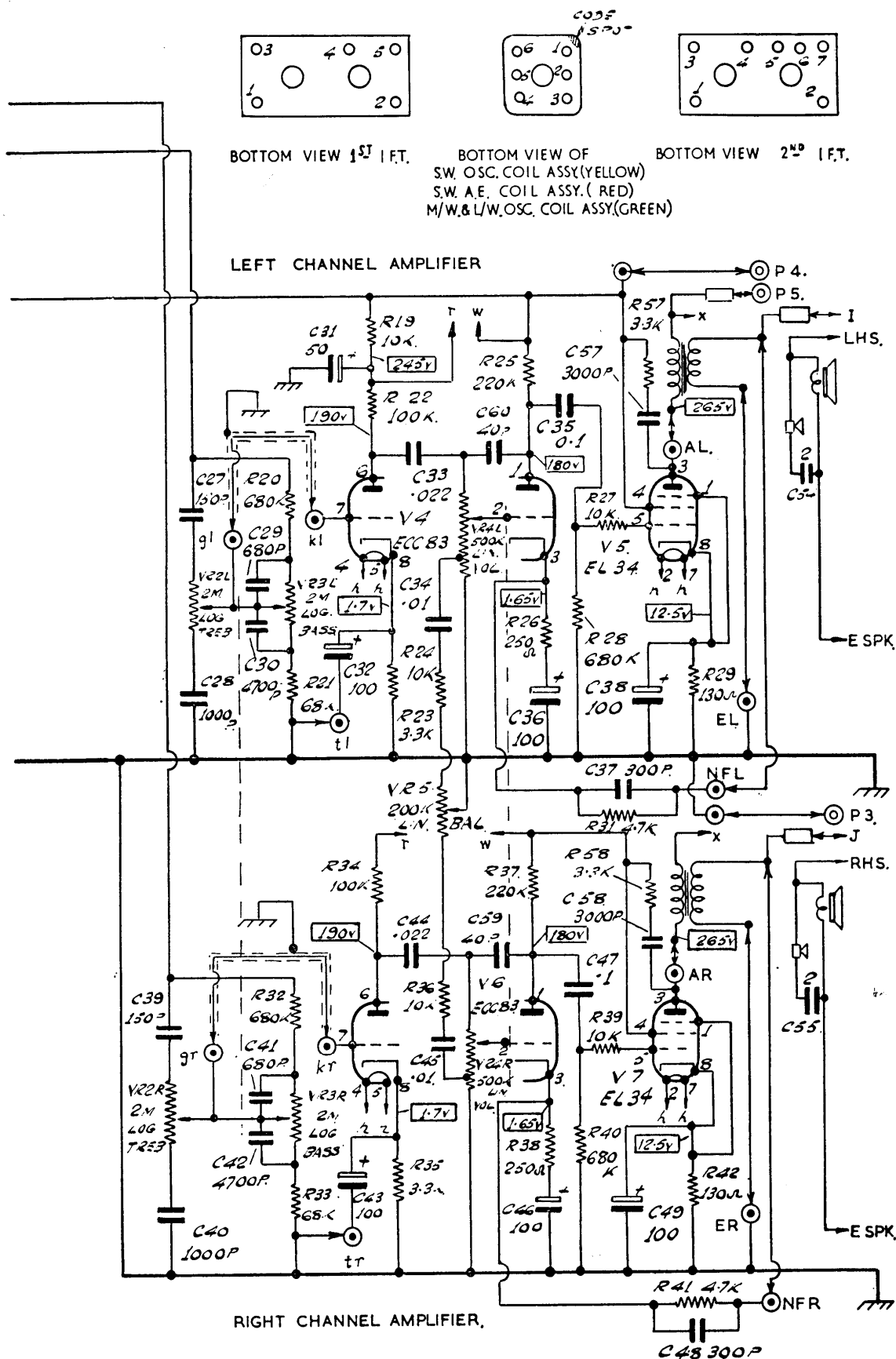
## PART CIRCUIT—ALBA MODELS 9904, 9905

(between d<sub>1</sub>, d<sub>2</sub> and d<sub>3</sub>) from the decoder plug, the decoder unit can be connected to the chassis. The existing de-emphasis circuit is disconnected by transferring the shorting link (on decoder bracket) from the right tag to the left tag.



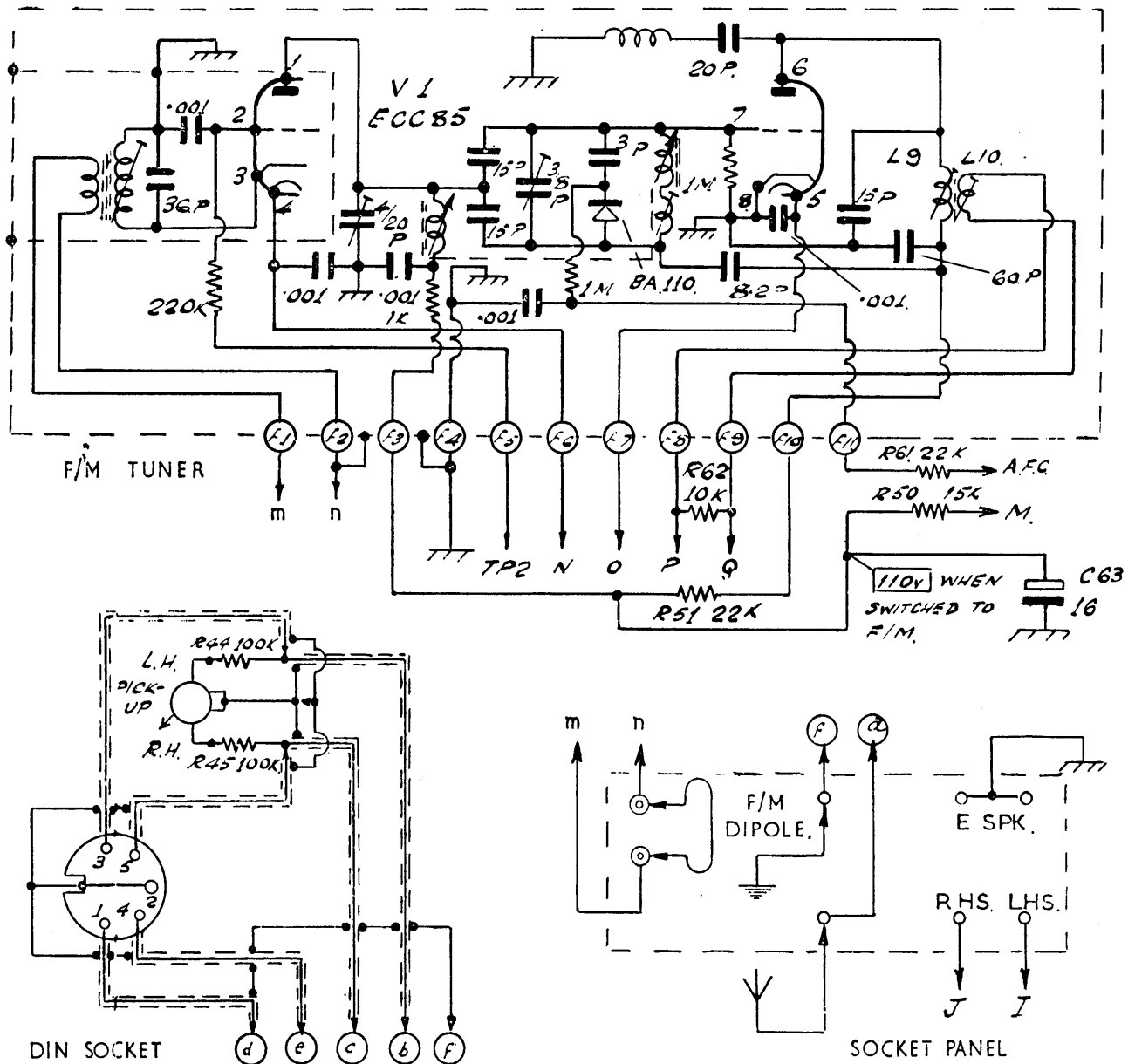
PART CIRCUIT—ALBA MODELS 9904, 9905

**Dismantling (Viscount): Chassis:** Pull off all round knobs. Remove chassis back. Remove power supply back. Unplug power supply cable and all plugs from socket panel. Remove mains lead clamp and pull off six-way edge connector. Unscrew motor leads from terminal block and socket panel from cabinet. Unsolder aerial and earth leads from socket panel. Unscrew chassis fixing screws and take out chassis and socket

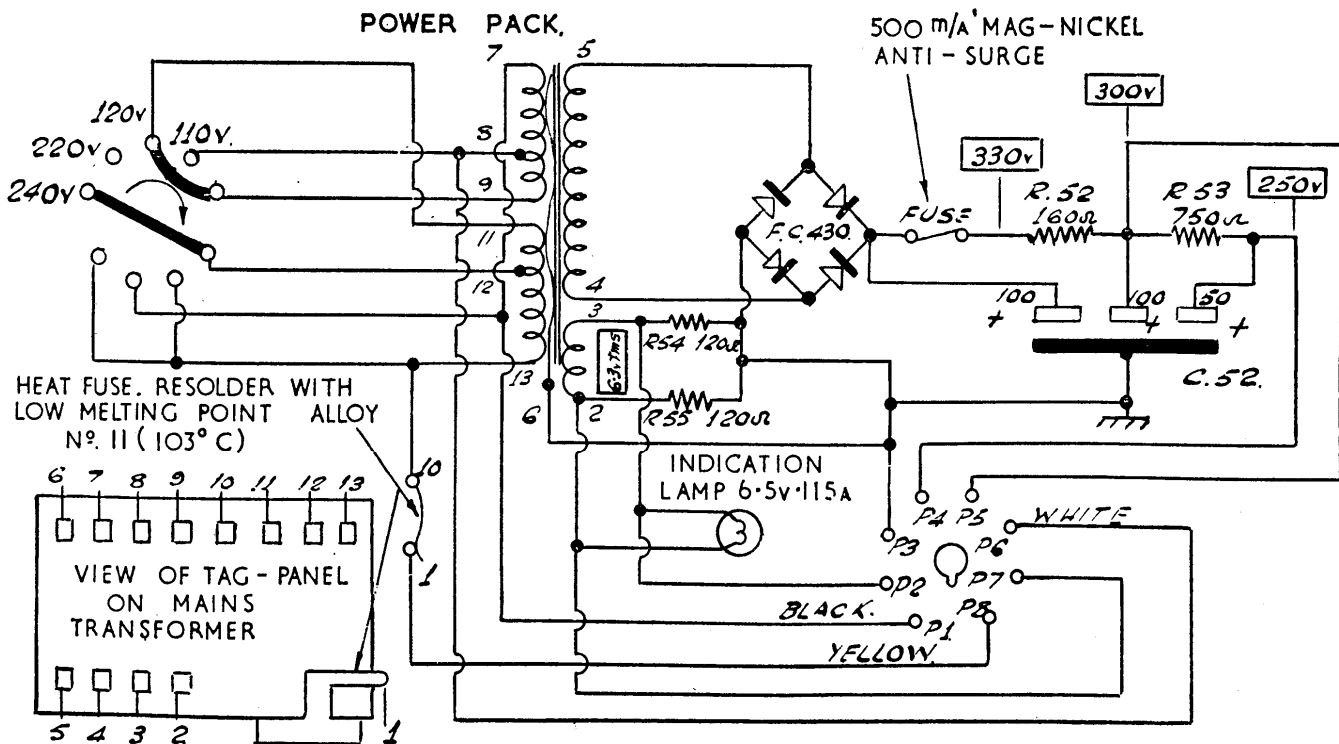


panel. **Power Pack:** Unsolder leads from tags 2 and 3 on mains transformer. Remove four nuts and washers from fixing bolts and lift power pack clear of cabinet. **Record Changer:** Remove cleats from motor leads to leave them at back of drawer. Pull out draw and screw down transit screws. Snap the horizontal fixing clips (on transit screws) to their vertical position and lift out the changer unit to the extent of the pickup wires.

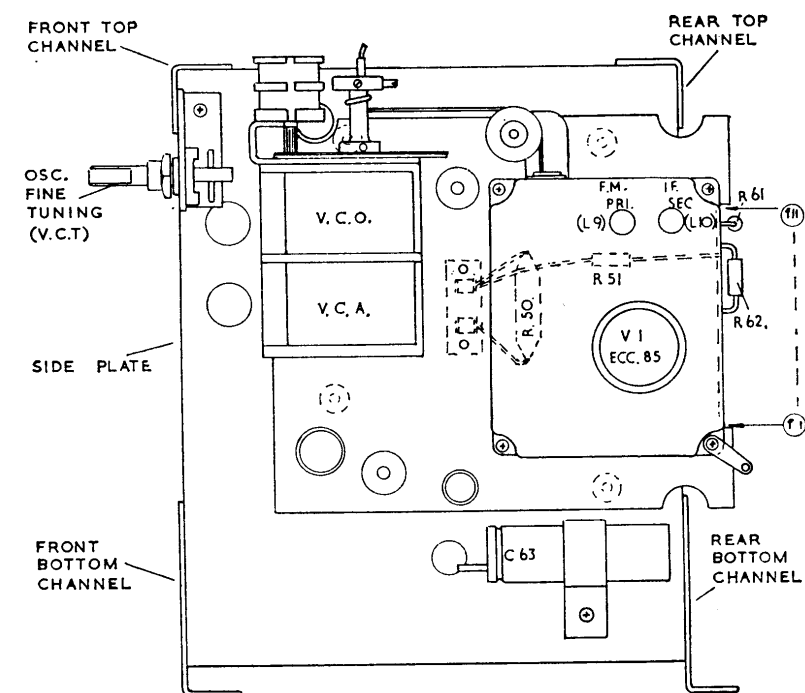
# RADIO SERVICING

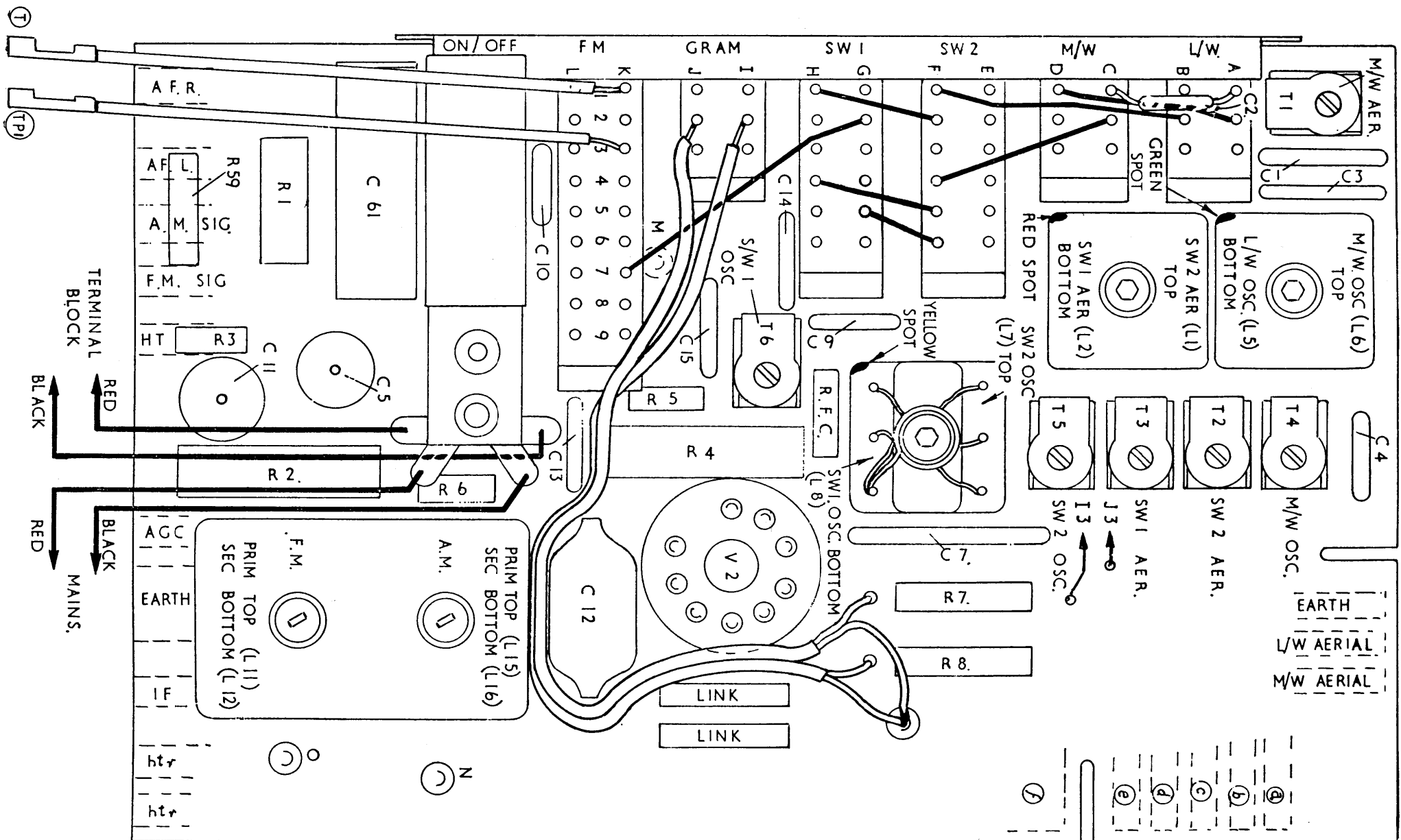


LOOKING AT DIN SOCKET AND SOCKET PANEL FROM WIRING SIDE

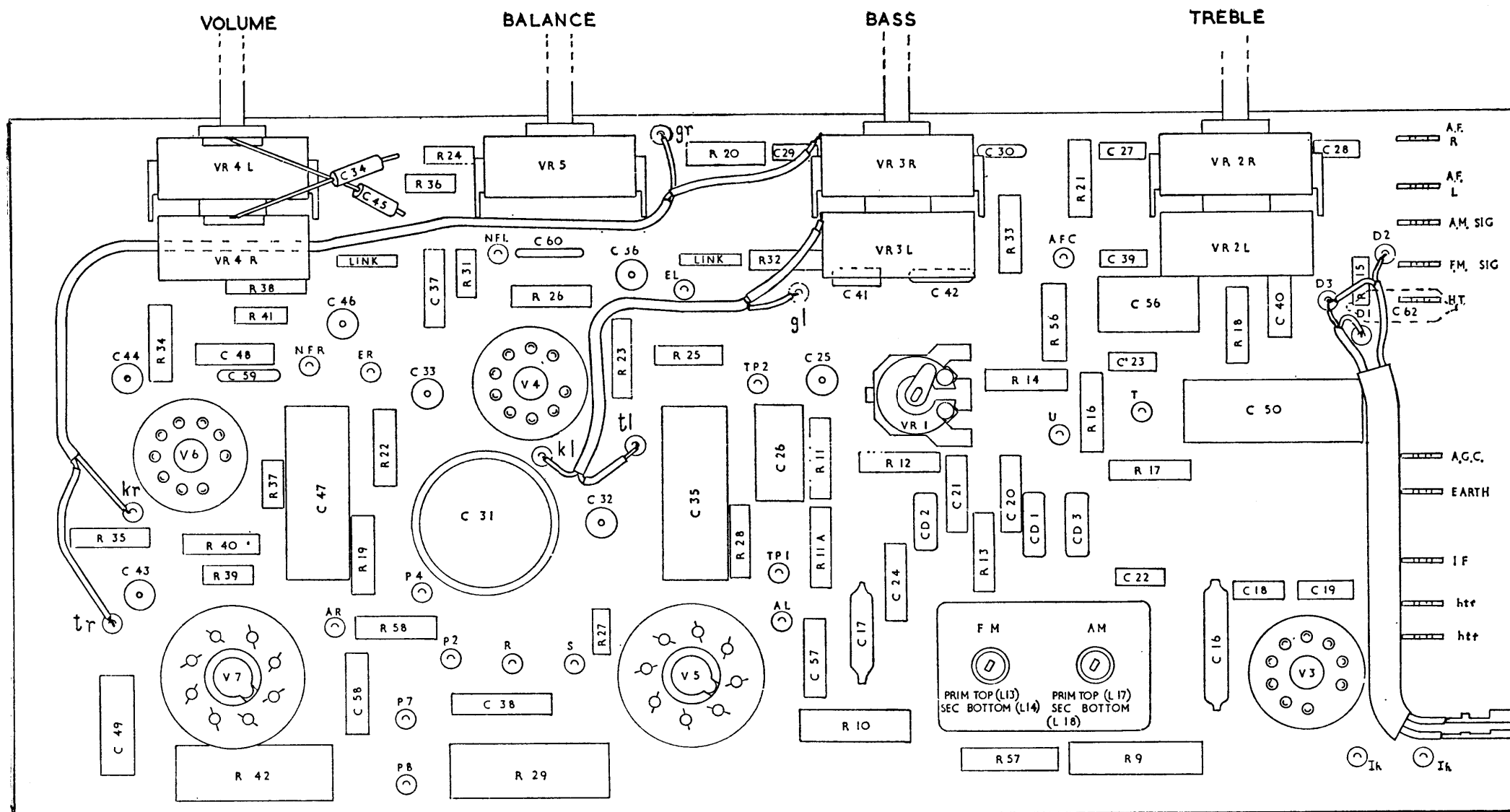


## CHASSIS LAY-OUT

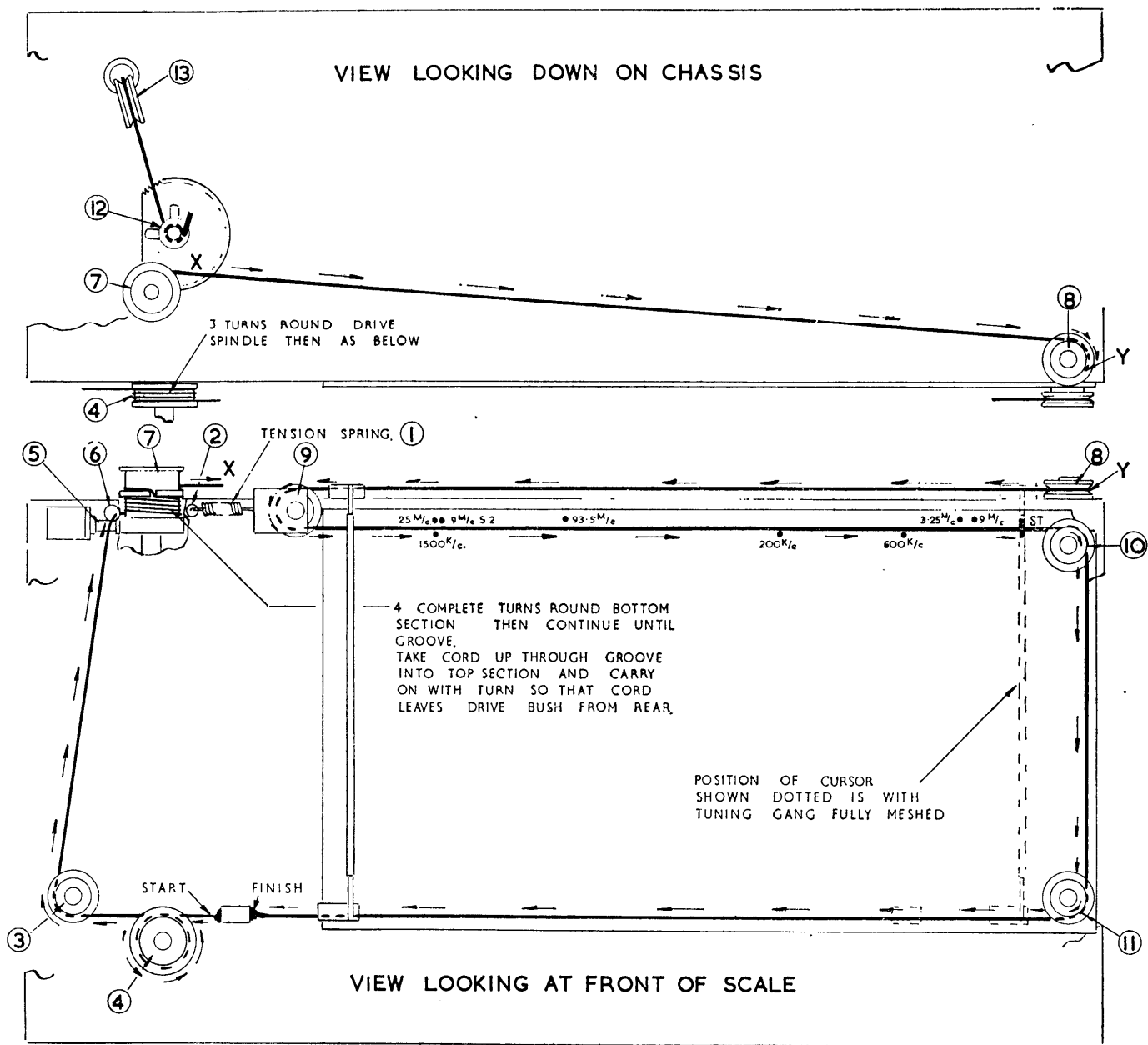




SWITCH PANEL LAY-OUT







## DRIVE CORD DIAGRAM

**Dismantling (Viking):** *Chassis:* Remove chassis back. Unplug power supply cable and all plugs from socket panel. Remove mains lead clamp. Unscrew socket panel from cabinet. Unsolder aerial and earth leads from socket panel. Unscrew output valve sub-chassis. Pull off round knobs on top of scale. Remove scale escutcheon. Unscrew ferrite aerial bracket. Remove front chassis nuts and washers and balance chassis on escutcheon and mounting frame (spindles horizontal). Pull off six-way edge connector, unscrew motor leads from terminal block and lift chassis out of cabinet. *Power Pack:* Remove small centre back. Unsolder leads from tags 2 and 3 on mains transformer. Remove four nuts and washers from fixing bolts and lift power pack clear of cabinet. *Record Changer:* Screw down transit screws and snap the horizontal fixing clips to their vertical position. Lift changer clear of cabinet to the extent of the pickup wires.

# CONTINUITY READINGS

<i>Circuit no.</i>	<i>Component</i>	<i>Ohms approx.</i>	<i>Circuit no.</i>	<i>Component</i>	<i>Ohms approx.</i>
L1	S.W.2 Aerial { tuned winding	0.5	L11	F.M. 2nd I.F.T. {	0.6
L2	S.W.1 Aerial { coupling winding	very low	L12		0.5
L3	L.W. Aerial winding	very low	L13		0.3
L4	M.W. Aerial winding	very low	L14		0.2
L19	Ferrite Coupling winding	3.5	L15 } F.M. Ratio Detector	Tertiary {	0.1
L5	L.W. Oscillator winding	1.25			8.5
L6	M.W. Oscillator { tuned winding	3.6			8.5
L7	S.W.2 Oscillator { coupling winding	5.6			6.75
L8	S.W.1 Oscillator { tuned winding	1.75	L16 } A.M. 1st I.F.T.	A.M. 2nd I.F.T. {	12.0
L10	R.F.C.	0.2			350.0
	F.M. 1st I.F.T. secondary	0.2			2.2
		0.6			1.4
			L17 } Output Transformers {	Primaries {	1.75
					6.2
					7.5
					13.3
			L18 } Mains Transformer {	Secondary {	very low

## SPARES

<i>Item</i>	<i>Part no.</i>	<i>Item</i>	<i>Part no.</i>
Mains Transformer	13761	Scale for model 9904	13752
Output Transformer	13757	Scale for model 9905	14046
1st I.F. Transformer	13769	Large knob for model 9904	13782/L
2nd I.F. Transformer	13770	Large knob for model 9905	13860/L
Ferrite Aerial Assembly	13759	Small knob for model 9904	13908/L
F.M. Tuner Unit	13773	Small knob for model 9905	13569/L
Volume Control	13765	Switch Push-button (both models)	13804
Bass or Treble Control	13764	Cursor	13758
Balance Control	13766	Metal Rectifier	13760
Tuning Gang	13744	Fuse—500 mA. Mag-nickel anti-surge	13436
Osc. Fine Tuning Capacitor	13775		